

B. CODE SECTION FOR PREPARING DOD FIRE INCIDENT REPORTS

The majority of the following codes were obtained from National Fire Protection Administration (NFPA) Standard 901 (reference (e)). The NFPA system has been modified in several areas to accommodate DoD Component needs. Therefore, even though reference (e) may be used as a cross-reference, use only codes contained herein for reporting and submitting the DoD Fire Incident Report. Reference (e) contains alphabetical listings for some of the main categories. These may aid you in finding the proper classification. If used, always cross-reference these DoD codes and again use only the codes herein. Suggested code changes shall be submitted to the Commander, Naval Safety Center (Attn: Code 44), Naval Air Station, Norfolk, Virginia 23511.

1. Section A - General Data

Item 16. Method of Alarm from Public:

10. Telephone directly to fire department
The reporting person direct-dials the fire alarm center.
Included are commercial and private telephone facilities.
"911" systems are only included if the fire alarm center receives all "911" calls directly. For tie-line calls, see 70.
Coded signal municipal-type fire alarm system, operated or actuated as indicated. Included are telegraph-type systems and radio systems.
21. Manually operated street or master box.
22. Automatic actuated by sprinkler or other automatic extinguishing system.
23. Automatic actuated by fire or smoke alarm system.
24. Manually operated through building alarm or auxiliary boxes.
30. ¹Aircraft radio.
31. ¹Crash net radio or phone.
32. ¹Other emergency phone.
33. ¹Emergency intercom.
40. Radio. Included are fires reported by radio from vehicles on fire department or police department frequencies directly to alarm headquarters.
50. Direct report to a fire station (verbal).
Included are fires seen from or reported to a fire station.
60. No alarm received - no response. Included are fires reported to or observed by fire department personnel after they have been extinguished by others and are cold.
70. Telephone tie-line to fire department. The reporting person direct-dials another emergency agency. Included are all calls received over a direct telephone tie-line from another emergency call center or facility tied directly to the fire department. The "911" system is included here when the civilian gets a police call center or another call center and his call is transferred to the fire alarm center.
80. Voice signal municipal fire alarm system. Included are all telephone type fire alarm systems.
90. Method of Alarm from the Public not classified above.
00. Method of Alarm from the Public undetermined or not reported.

Item 17. Type of Situation Found:

1. Fire or Explosion. Included are fires out on arrival. Excluded are unauthorized burnings (56) and controlled burnings (63).
11. Structure fire. Included are any fires inside a building or structure, whether or not there was structural damage to the building.
12. Outside of structure fire (not included in 13, 14, or 15, below).
Included are yard storage, crops, and any fire outside a structure where the material burning has a value.
13. Vehicle fire.
14. Trees, brush, and grass fire.
15. Refuse fire.

¹ Aircraft-related

16. Explosion, no after-fire.
17. Outside spill or leak with ensuing fire.
18. Ships, vessels, or service craft.
19. Fire or Explosion not classified above.
10. Fire or Explosion; or insufficient information available to classify further.
2. No-Fire Operation of Fixed Extinguishing System (with damage resulting)
 21. Wet-pipe sprinkler.
 22. Dry-pipe sprinkler.
 23. Deluge sprinkler system: water only.
 24. Deluge sprinkler system: water or foam.
 25. Preaction sprinkler.
 26. Carbon-dioxide system.
 27. Halon-type system.
 28. Dry-chemical systems.
3. Off-Station Response of Major Significance
 31. Off-station response of major significance (structural).
 32. Off-station response of major significance (aircraft).
4. Aerospace Vehicle Incidents
 41. Aircraft engine fire.
 42. Aircraft electrical fire.
 43. Aircraft wheel or brake fire.
 44. Aircraft starter cartridge fire.
 45. Aircraft fire with nuclear or conventional weapons onboard and the weapon is involved in the fire.
 46. Aircraft fire with nuclear or conventional weapons onboard and the weapons are not involved in the fire.
 47. Missile fire with warhead involved in fire.
 48. Missile fire with warhead not involved in fire.
 49. Aerospace vehicle incident not covered above.
 40. Aircraft fuel tank fire (wing, center line, internal, external, or fuel vents).
5. Aerospace Vehicle Flight Mishap
 51. Aircraft crash with fire.
 52. Aircraft crash with no fire.
 53. Aircraft crash with nuclear or conventional weapons onboard with fire involving the weapons.
 54. Aircraft crash with nuclear or conventional weapons onboard with fire not involving the weapons.
 59. Aerospace vehicle flight mishap not covered above.
6. Fuel Spills. (See Appendix A of NFPA Standard 407, reference (f))
 61. Class III fuel spill (large spills).
 62. Class I, II, or III fuel spill resulting in fire (smaller spills)
7. Nuclear or conventional weapon incident
 71. Weapons storage fire.
 72. Weapons fire during maintenance.
 73. Weapons fire during weapons movement.
 74. Weapons fire during upload or download.
 75. Weapons fire not covered above.
8. Fire Prevention Action
 81. A reportable response in which fire prevention action was taken.

Item 18. Fixed Property Use:

The major divisions (single-digit) of the Fixed Property Use classification are:

1. Public Assembly Property
2. Educational Property
3. Institutional Property
4. Residential Property
5. Store or Office Property
6. Basic Industry, Utility, or Defense Property
7. Manufacturing Property
8. Storage Property
9. Special Property

1. PUBLIC ASSEMBLY PROPERTY

Places for the congregation of people for amusement, recreation, social, religious, patriotic, civic, travel, and similar purposes are known as public assembly properties. Such properties are characterized by the presence or potential presence of crowds, with attendant panic hazard in case of fire or other emergency. They are generally open to the public, or may, on occasions, be open to the public. The occupants are present voluntarily and are not ordinarily subject to discipline or control. They are generally able-bodied persons, whose presence is transient in character, and who do not intend to sleep on the premises.

11. Fixed Use Amusement and Recreation Places

111. Bowling establishment.

112. Billiard center.

113. Amusement center.

Amusement hall, such as shooting gallery, penny arcade, bingo hall, dance hall.

Excluded are bowling establishments (111), billiard centers (112), and halls with variable use (121).

116. Swimming facility.

Included are all swimming pools, related cabanas, bathhouses, and equipment locations.

119. Fixed Use Amusement and Recreation Places not classified above.

110. Fixed Use Amusement and Recreation Places; insufficient information available to classify further.

12. Variable Use Amusement and Recreation Places

121. Ballroom or gymnasium.

123. Arena or stadium.

Fixed seating in large areas.

Included are ball parks, race tracks, grandstands, and sports gardens.

124. Playground.

129. Variable Use Amusement and Recreation Places not classified above.

120. Variable Use Amusement and Recreation Places; insufficient information available to classify further.

13. Churches and Funeral Parlors

131. Church or chapel.

139. Churches and Funeral Parlors not classified above.

130. Churches and Funeral Parlors; insufficient information available to classify further.

14. Clubs, YMCA Boys' Clubs, and Yacht Clubs

141. All clubs, YMCA, Boys' Clubs, yacht clubs, and golf clubs. Excluded are nightclubs (162)

15. Libraries, Museums, and Courtrooms

151. Library.

152. Museum or art gallery.

Included are aquariums and planetariums.

153. Historic building.

155. Courtroom.

159. Libraries, Museums, and Courtrooms not classified above.

150. Libraries, Museums, and Courtrooms; insufficient information available to classify further.

16. Eating and Drinking Places

Included are retail establishments selling prepared foods and drinks.

161. Restaurant.

Those eating places specializing in food primarily for consumption on the premises.

Included are cafeterias and diners with table or automatic services.

162. Nightclub - officers', chief petty officers', enlisted, noncommissioned officers'.

Those places specializing in food and drink. They may have dancing or entertainment.

Included are key clubs, supper clubs, and dinner theaters.

169. Eating and Drinking Places not classified above.

160. Eating and Drinking Places; insufficient information available to classify further.

17. Passenger Terminals

Included are incidental freight-handling facilities.

171. Airport passenger terminal.

173. Bus passenger terminal.

Included are terminals for airline limousines and downtown airline terminal buildings.

177. Marine passenger terminal.

Included are ferry terminals.

179. Passenger Terminals not classified above.

170. Passenger Terminals; insufficient information available to classify further.

18. Theaters and Studios

182. Auditorium or concert hall.

183. Motion picture theater.

Excluded are drive-in theaters (184).

184. Drive-in motion picture theater.

185. Radio or TV studio.

189. Theaters and Studios not classified above.

180. Theaters and Studios; insufficient information available to classify further.

10. Public Assembly Property; Unclassified

109. Public Assembly Property not classified above.

100. Public Assembly Property; insufficient information available to classify further.

2. EDUCATIONAL PROPERTY

Educational properties are those used for the gathering of groups of persons for purposes of instruction such as schools, colleges, universities, and academies. Educational properties are distinguished from public assembly properties in that the same occupants are present regularly, and they are subject to discipline and control. Included are part-day nursery schools, kindergartens, and other schools whose primary purpose is education. Other properties associated with educational institutions are classified in accordance with their actual use.

21. Nonresidential Schools

All public, private, or parochial schools where students attend during the day only.

- 211. Nursery school.
Schools for prekindergarten-age children, operating 4 hours a day or less. If operating over 4 hours, classify as child day care center (321)
- 212. Kindergarten.
Schools for children in the grade before grade 1.
- 213. Elementary school.
- 214. Junior high school.
Included are intermediate and middle schools.
- 215. High school.
- 219. Nonresidential Schools not classified above.
- 210. Nonresidential Schools; insufficient information available to classify further.

22. Residential Schools

- 221. All public, private, or parochial boarding schools, including such day student facilities as may be present.

23. Trade and Business Schools

- Other than high school or college.
- 231. Vocational or trade school and military technical training centers.
 - 239. Trade and Business Schools not classified above.
 - 230. Trade and Business Schools; insufficient information available to classify further.

24. Colleges and Universities

- 241. College classroom building.
Buildings containing classrooms used for higher education, whether a college, university, junior college, community college, or any other institution of higher learning.
- 249. Colleges and Universities not classified above.
- 240. Colleges and Universities; insufficient information available to classify further.

- 20. Educational Property; Unclassified
 - 209. Educational Property not classified above.
 - 200. Educational Property; insufficient information available to classify further.

3. INSTITUTIONAL PROPERTY

Institutional properties are those used for purposes such as medical or other treatment or care of persons suffering from physical or mental illness, disease, or infirmity; for the care of infants, convalescents, or aged persons; and for penal or corrective purposes. Institutional buildings ordinarily provide sleeping facilities for the occupants.

- 31. Care of the Aged
 - 311. All care of the aged facilities.
- 32. Care of the Young
 - 321. All care of the young facilities such as day child-care centers.
- 33. Care of Sick and Injured
 - 331. Hospital or hospital-type infirmary.
 - 334. Clinic or clinic-type infirmary.
 - 339. Care of the Sick and Injured not classified above.
 - 330. Care of the Sick and Injured; insufficient information available to classify further.
- 34. Care of the Physically Restrained
 - 341. Prison cell or cell block.
 - 344. Detention camp, minimum security-type.
 - 345. Police station.
 - 349. Care of the Physically Restrained not classified above.
 - 340. Care of the Physically Restrained; insufficient information available to classify further.
- 35. Care of the Physically Inconvenienced
 - 351. Included are facilities for persons who are physically incapable of self-help under emergency conditions.
- 36. Care of the Mentally Handicapped
 - 361. Included are facilities for persons who are mentally incapable of self-help under emergency conditions.
- 30. Institutional Property; Unclassified
 - 309. Institutional Property not classified above.
 - 300. Institutional Property; insufficient information available to classify further.

4. RESIDENTIAL PROPERTY

A residential property is one in which sleeping accommodations are provided for normal living purposes. Included are all buildings designed to provide sleeping accommodations except those classified under Institutional (major division 3).

41. One- and Two-Family Dwellings

- 411. One-family dwelling: year-round use.
- 412. One-family dwelling: seasonal use.
- 414. Two-family dwelling: year-round use.
- 415. Two-family dwelling: seasonal use.
- 419. One- and Two-Family Dwellings not classified above.
- 410. One- and Two-Family Dwellings; insufficient information available to classify further.

42. Apartments, Tenements, and Flats

- 422. 3 through 6 units.
- 423. 7 through 20 units.
- 424. Over 20 units.
- 429. Apartments, Tenements, and Flats not classified above.
- 420. Apartments, Tenements, and Flats; insufficient information available to classify further.

43. Rooming, Boarding, and Lodging Houses

- 430. All rooming, boarding, and lodging houses.

44. Hotels, Motels, Inns, and Lodges

- 440. Hotels, motels, inns, and lodges.

46. Dormitories

- 461. School, college, or university dormitory.
- 463. Nurses' quarters.
- 464. Military barracks, officers' quarters and enlisted quarters.
- 466. Bunk house or workers' barracks.
- 469. Dormitories not classified above.
- 460. Dormitories; insufficient information available to classify further.

49. Other Residential Occupancies

- 491. Children's playhouse.
- 492. Outdoor sleeping quarters.
Included are tents.
- 499. Other Residential Occupancies not classified above.
- 490. Other Residential Occupancies; insufficient information available to classify further.

40. Residential Property; Unclassified

409. Residential Property not classified above.

400. Residential Property; insufficient information available to classify further.

5. STORE AND OFFICE PROPERTY

Store properties include all markets and other areas, buildings, or structures for the display, sale, repair, or service of merchandise, new or used, purchased or rented. Mercantile or store properties generally have a capacity for a large number of people and usually have a display and sales area that is large in relation to the storage area. Office properties are principally used for the transaction of business and the keeping of private or public records.

51. Food and Beverages Sales

511. Supermarket or commissary store.

514. Liquor or beverage store.

516. Delicatessen.

Sale of prepared foods mainly for consumption off the premises. Included are pickup and carryout services.

519. Food and Beverage Sales not classified above.

510. Food and Beverage Sales; insufficient information available to classify further.

53. Household Goods Sales, Repairs, and Furniture and Appliance Repair

530. All household goods sales, repairs, and furniture and appliance repair.

55. Recreation, Hobby, or Home Repair Supply Sales, Personal Services, Hobby Shops, and Barber Shops

550. All recreation, hobby, or home repair supply sales, personal services, hobby shops, and barber shops.

57. Motor Vehicle or Boat Sales and Services

571. Public service station.

Fuel service facilities for motor vehicles operated for the public, such as gasoline service stations, diesel fuel stations, and liquid propane (LP) gas stations, with associated lubritorium and wash facilities. Included are service station islands. Excluded are marine service facilities (577).

572. Private service station (government equipment).

573. Motor vehicle repair or paint shop.

Repair of automobiles or motor trucks and shops doing specialized repair work to motor vehicles such as repair of auto tops, hoods, or electrical systems. Excluded are car-washing facilities (578).

- 577. Marine service station.
Refueling facilities for marine vessels of any size.
- 578. Car-washing facility.

58. General Item Stores and Exchanges

- 580. All general item stores, military exchanges, or exchange vendor leased or rented facilities.

59. Offices

Office properties are those used for the transaction of business, for the keeping of accounts and records, and for similar purposes. Minor office occupancy incidental to operations in another property shall be considered part of the predominating property.

- 591. General business office.
- 592. Bank.
- 593. Medical, research, or scientific office.
- 596. Post office.
- 599. Offices not classified above.
- 590. Offices; insufficient information available to classify further.

50. Mercantile Properties and Offices; Unclassified

- 509. Mercantile Properties and Offices not classified above.
- 500. Mercantile Properties and Offices; insufficient information available to classify further.

6. BASIC INDUSTRY, UTILITY, AND DEFENSE PROPERTY

Included are agriculture, forestry, the extractive and mining industries, mineral products, utilities, laboratories, nuclear plants, and communication facilities; and national defense sites, since they depend so heavily on communications.

61. Nucleonics and Energy Production

- 611. Radioactive material working.
- 613. Nuclear energy plant.
Production of energy for power purposes.
Included are the generation of electricity if an integral part of the nuclear plant.
- 614. Steam or heat energy plant.
Creation of heat and steam from any fuel except nuclear.
Included are integral boiler-turbine-generator units driven by nonnuclear fuels.
- 615. Electric generating plant.
Generation of electric energy.
- 616. Gas manufacturing plant.
- 619. Nucleonics, Energy Production not classified above.
- 610. Nucleonics, Energy Production; insufficient information available to classify further.

62. Laboratories

Included are classrooms and offices incidental to laboratory facilities. Minor laboratory areas incidental to operations in another property shall be considered part of the predominating property.

- 621. Chemical or medical laboratory.
Included are biological laboratories.
- 622. Physical materials testing laboratory
Included are all laboratories for testing physical properties of materials, hydraulic laboratories, physics laboratories, and physical materials laboratories.
- 623. Personnel or psychological laboratory.
Included are laboratories for the testing and measuring of persons and educational laboratories.
- 624. Radioactive materials laboratory.
Any laboratory handling or using radioactive material in a quantity requiring marking.
- 625. Electrical or electronic laboratory.
- 627. General research laboratory.
- 629. Laboratories not classified above.
- 620. Laboratories; insufficient information available to classify further.

63. Communications, Defense and Document Facilities

Critical areas where security must be maintained in order to ensure national, business, or public safety continuity.

- 631. National defense site not elsewhere classified.
Included are missile or space vehicle launch sites.
Excluded are radio and radar sites (632). The missiles or vehicles themselves are classified under Mobile Property Type.
- 632. Radio or radar site.
Included are microwave transmitter sites, flight control facilities, satellite tracking stations, and repeater sites.
Excluded are fire, police, and industrial communication centers (633).
- 633. Fire, police, or industrial communications center.
- 634. Telephone exchange or central office.
Included are communications cable sites with the associated repeater and terminal facilities.
- 635. Computer or data processing center.
- 636. Document center or record repository.
- 639. Communications, Defense, and Document Facilities not classified above.
- 630. Communications, Defense, and Document Facilities; insufficient information available to classify further.

64. Utility and Energy Distribution Systems

- 642. Electric transmission or distribution system.
Distribution of electricity outside generating plant premises.

- Included are substations, transformers, and utility poles.
644. Gas distribution system or pipeline.
Piping systems and associated equipment for the distribution of gas fuels from manufacturing plants, storage facilities, or wells to the user.
Included are transmission lines, compressors, and distribution piping.
645. Flammable liquid distribution system, pipeline.
Piping systems and associated equipment for the distribution of flammable liquid from manufacturing plants, storage facilities, or wells to the user. Included are transmission lines, compressors, and distribution piping.
646. Steam or heat distribution system.
Distribution of steam, hot water, hot chemicals, and hot oils for heating and power purposes.
Included are "district heating" systems.
647. Water supply system.
Collection, treatment, storage, and distribution of water.
648. Sanitary service.
Garbage and sewage disposal.
Included are sewer systems, commercial incinerators, and industrial rubbish burners.
Excluded are dumps (932).
649. Utility and Energy Distribution Systems not classified above.
640. Utility and Energy Distribution Systems; insufficient information available to classify further.

66. Forests, Hunting and Fishing

661. Forest or standing timber without logging operations.
664. Tree.
666. Woodchip pile.
669. Forests, Hunting and Fishing not classified above.
660. Forests, Hunting and Fishing; insufficient information available to classify further.

60. Basic Industry, Utility, and Defense; Unclassified

609. Basic Industry, Utility, and Defense not classified above.
600. Basic Industry, Utility, and Defense; insufficient information available to classify further.

7. MANUFACTURING PROPERTY

76. Chemical, Plastic, and Petroleum

761. Industrial chemical manufacture.
Manufacture of industrial organic and inorganic chemicals and industrial gases.
762. Hazardous chemical manufacture.
Manufacture of materials requiring special handling in manufacture, shipment, storage, or use.
Included are explosives, blasting agents, fireworks, matches, unstable rocket propellants, pyroxylin (cellulose nitrate) plastics, hazardous monomers, and organic peroxides.

77. Metal and Metal Products

770. All metal or metal products.

78. Vehicle Assembly and Manufacture

781. Shipbuilding or repairing of vessels over 65 feet.

Shipyards engaged in building and repair work on vessels over 65 feet in length including barges, lighters, and tugs, whether self-propelled or not.

782. Boatbuilding or repairing of vessels 65 feet and under.

Boatyards engaged in building and repair work on vessels 65 feet and under in length, regardless of material used in manufacture and whether self-propelled or not.

786. Aircraft and rocket manufacturing, assembly, or repair.

Manufacture, assembly, and repair of airplanes, gliders, rockets, missiles and aircraft parts such as engines, propellers, pontoons, and undercarriages.

789. Vehicle Assembly and Manufacture not classified above.

780. Vehicle Assembly and Manufacture; insufficient information available to classify further.

79. Other Manufacturing

Manufacturing industries not classified in any other division.

796. Laundry or dry-cleaning plant.

797. Photographic film-processing laboratory.

799. Other Manufacturing not classified above.

790. Other Manufacturing; insufficient information available to classify further.

70. Manufacturing Property: Unclassified

708. General maintenance shop not elsewhere classified.

709. Manufacturing Property not classified above.

700. Manufacturing Property; insufficient information available to classify further.

8. STORAGE PROPERTY

Storage properties are all buildings, structures, or areas used primarily for the storage or sheltering of goods, merchandise, products, vehicles, or animals; and incidental servicing, processing, and repair operations. Included are the resale (sale without transformation) of goods to businesses, institutions, and government, such as the resale of industrial and construction materials, machinery, and equipment; farm machinery, implements, and supplies; and business and professional equipment. Also included are warehousing, grading, sorting, breaking bulk, and repacking, which are associated with reselling.

Storage properties are characterized by the presence of relatively small numbers of persons in proportion to the area. Any new use that increases the number of occupants to a figure comparable to other classes of properties

changes the classification of the building to that of the new use. If substantial mercantile or office operations exist (10 customers or more present at busy period), reclassify if appropriate in major division 5 (Store and Office Property).

81. Agricultural Products Storage

810. All agricultural products storage.

82. Textile Storage

826. Wearing apparel, garments, and finished textile storage.

820. Textile Storage; insufficient information available to classify further.

83. Processed Food and Tobacco Storage

831. Packaged foodstuff storage.

832. Canned or bottled food or soft drink storage.

Storage of canned or bottled foodstuffs.

Included are plants that bottle materials made elsewhere.

833. Loose or bagged processed food storage.

Processed foods stored in bulk or in bags of any material or size.

Excluded are animal feed in hay, grain, seed, and feed stores (810).

834. Food locker plants.

835. Cold storage.

839. Processed Food and Tobacco Storage not classified above.

830. Processed Food and Tobacco Storage; insufficient information available to classify further.

84. Petroleum Products and Alcoholic Beverage Storage

Included are gases of all kinds, flammable liquids, and combustible liquids, except those specifically mentioned in division 86 below, such as 865 for paint and varnish.

841. Flammable or combustible liquid tank storage.

Included are airport fuel dispensing systems, bulk plants, terminals, and tank farms.

842. Gasometer or cryogenic gas storage.

843. LP-gas bulk plant.

Excluded is filling individual cylinders for the public (571).

844. Missile, rocket fuel storage.

Included are storage facilities at the manufacturing plant, launching site, and intermediate fixed storage locations.

845. Packaged petroleum products storage.

846. Alcoholic beverage storage.

Storage of liquor, beer, wine, and other alcoholic beverages, whether in barrels, casks, kegs, or bottles.

849. Petroleum Products and Alcoholic Beverage Storage not classified above.

840. Petroleum Products and Alcoholic Beverage Storage; insufficient information available to classify further.

85. Wood and Paper Products Storage

- 851. Lumberyard or building materials storage.
Storage of lumber and building materials.
- 852. Wood products or furniture storage.
- 859. Wood and Paper Products Storage not classified above.
- 850. Wood and Paper Products Storage; insufficient information available to classify further.

86. Chemical or Plastic and Chemical or Plastic Products Storage

For the purpose of this classification, a chemical is a material that has had or will have a controlled change in its molecular structure or composition, not involving polymerization; while a plastic is a material whose molecule has been polymerized.

- 861. Industrial chemical storage.
- 862. Hazardous chemical storage, magazine.
Excluded are radioactive materials (division 61).
- 865. Paint and varnish storage.
- 866. Drug, cosmetic, or pharmaceutical storage.
- 867. Rubber or rubber products storage.
- 868. Photographic film storage.
Storage of photographic films, new or exposed, including motion picture film, X-ray film, industrial film, and hobby film.
- 869. Chemical or Plastic and Chemical or Plastic Products Storage not classified above.
- 860. Chemical or Plastic and Chemical or Plastic Products Storage; insufficient information available to classify further.

87. Metal and Metal Products Storage

- 871. Basic metal form storage.
- 872. Metal parts storage (often in trays or bins or on racks).
- 873. Hardware storage.
Included are storage of auto parts, auto accessories, tools, and plumber's supplies.
- 874. Machinery storage.
- 875. Electrical appliance or supply storage.
- 876. Finished metal products storage (often in cartons or crates).
- 877. Scrap or junkyards.
Included are nonmetal waste and scrap, such as wastepaper and tires.
Excluded are refuse dumping areas (932).
- 879. Metal and Metal Products Storage not classified above.
- 870. Metal and Metal Products Storage; insufficient information available to classify further.

88. Vehicle Storage

- 881. Residential parking garage.
Parking of motor vehicles in one-story residential garages.
Included are dwelling garages, whether separate or attached.
Excluded are general vehicle parking garages (882).

882. General vehicle parking garage.
Parking of vehicles of various ownership in facilities under the direction of one management.
Excluded are facilities for repair of motor vehicles (573), dwelling or one-story residential garages (881), and garages for public works vehicles and dump trucks (884).
884. Heavy machine or equipment storage.
Parking of road, farm, and contracting equipment in a suitably managed location.
Included are storage of public works vehicles, construction and earth-moving equipment, dump trucks, and cranes.
885. Boat or ship storage.
A marine parking "garage." Docking and mooring facilities for boats in the water.
Included are launching facilities and storage of boats and ships for relatively long periods of time.
886. Aircraft hangar.
887. Railway storage.
888. Fire stations.
889. Vehicle Storage not classified above.
880. Vehicle Storage; insufficient information available to classify further.

89. General Item Storage

891. General warehouse.
Excluded are warehouses storing mainly wood furniture (852) and warehouses storing mainly foodstuffs (division 83).
896. Military stores, national defense storage not elsewhere classified.
897. Ice storage.
Storage of natural and manufactured ice.
898. Wharf or pier.
899. General Item Storage not classified above.
890. General Item Storage; insufficient information available to classify further.

80. Storage Property: Unclassified

808. Toolshed.
809. Storage Property not classified above.
800. Storage Property; insufficient information available to classify further.

9. SPECIAL PROPERTY

These properties are not readily classified in any of the preceding major divisions. They include mainly outdoor properties. Fixtures such as signs, fences, and poles that usually are on outdoor property are not separate fixed property uses. The fixed property upon which this item is located shall be identified. The sign, fence, or fixture, if involved in ignition, shall be identified within Section B, Origin and Ignition Data.

91. Construction, Unoccupied Property

Property under construction or demolition by contractors or governmental authorities. Included are structures where work is being done by specialist contractors such as carpenters, plumbers, masons, plasterers, and technicians. Excluded are structures in which the remodeling, repair, construction, or demolition is being done by the staff or employees of a property manager or areas where the normal operation of an enterprise, such as clearing earth for mining, requires such activity.

- 911. Building under construction.
- 912. Building under demolition.
- 913. Construction, structure other than buildings. Use 981 for nonstructures.
- 914. Demolition, structure other than buildings.
Use 981 for nonstructures.
- 915. Vacant property.
Property without contents.
Excluded is idle property (917).
- 916. Contractor's shed.
- 917. Idle property.
Idle property with some or all contents of previous occupancy.
Excluded is vacant property (915).
- 918. Building under renovation.
Included are vacant or idle properties actively undergoing renovation. Excluded are buildings being renovated while still occupied (classify as to their fixed property use).
- 919. Construction, Unoccupied Property not classified above.
- 910. Construction, Unoccupied Property; insufficient information available to classify further.

92. Special Structures

Classification here is only for fires in these structures. If fires involve mobile property using these structures, classify in division 94, 95, or 96, as appropriate.

- 921. Bridge or trestle.
Included are overhead or elevated structures, such as overpasses, elevated roads, and railways.
- 922. Tunnel.
- 925. Shelter.
Included are storm, tornado, bomb, fallout, weather, and bus shelters.
- 926. Outbuilding, excluding garage.
Included are privies.
- 927. Outdoor telephone booth.
- 928. Aerial tramway.
Included are ski lifts and chair lifts.
- 929. Special Structures not classified above.
- 920. Special Structures; insufficient information available to classify further.

93. Outdoor Properties

- 931. Open land or field.
Included are grass, brush, and light ground cover, parks, and campsites without utilities and parks..
Excluded are forests (661) and vacant lots (936).
- 932. Dump or sanitary landfill.
Included are refuse disposal areas and dumps in open ground.
- 933. Public mailbox.
- 934. Cemetery.
- 935. Campsite with utilities.
- 936. Vacant lot.
Included are neglected plots of land.
Excluded are graded and maintained plots of land (931).
- 939. Outdoor Properties not classified above.
- 930. Outdoor Properties; insufficient information available to classify further.

94. Water Areas

- 941. In open sea or tidal waters.
- 942. Within designated port, channel, or anchorage.
- 943. Alongside quay, pier, or pilings.
Excluded are flammable liquid or gas loading and unloading facilities (944).
- 944. At flammable liquid or gas loading or unloading facility.
- 945. Aground.
Indicate distance to nearest shoreline.
- 946. Inland water area.
Included are lake, pond, river, or stream.
- 949. Water Areas not classified above.
- 940. Water Areas; insufficient information available to classify further.

95. Railroad Property

- Included are railroad, subway, railway, trolley, and other fixed rail property.
- 951. Railroad right-of-way.
Included are the areas marked by fence or 30 feet beyond ballast on each side, outside of switch yards, terminals, and sidings.
 - 952. Switch yard or marshalling yard.
 - 953. Siding.
 - 954. Railroad signaling, switch control equipment location.
 - 959. Railroad Property not classified above.
 - 950. Railroad Property; insufficient information available to classify further.

96. Road or Parking Property

- 961. Limited access highway, divided highway.

- 962. Paved public street.
Included are associated parallel or diagonal parking on right of way.
Excluded are limited access and divided highways (961).
- 963. Paved private street or way.
Included are paved driveways.
Excluded are uncovered parking areas (965).
- 964. Unpaved street, road or path.
Included are unpaved driveways.
- 965. Uncovered parking area.
Included are open parking lots, rest stops, and open car stacking mechanisms.
Excluded are driveways (963), covered parking garages (882), and campsites with utilities (935).
- 969. Road or Parking Property not classified above.
- 960. Road or Parking Property; insufficient information available to classify further.

97. Aircraft Areas or Aircraft Evolutions. The fixed property upon which aircraft is located is not as much of a concern as the functions or evolution in which the aircraft is involved. For this reason, the section is modified to indicate aircraft evolution.

- 970. Engine start, shutdown, or test.
- 971. Taxi.
- 972. Static or parked (no activity occurring).
- 973. Refueling, defueling, or transfer of fuel.
- 974. Maintenance or inspection.
- 975. Other servicing.
- 976. Takeoff.
- 977. Inflight.
- 978. Landing.
- 979. Other or not known.

98. Equipment Operating Areas

- 981. Construction site.
Excluded are oil and gas fields (982) and building or structure construction and demolition sites (division 91).
- 982. Oil or gas field.
- 983. Pipeline or powerline right-of-way.
- 989. Equipment Operating Areas not classified above.
- 980. Equipment Operating Areas; insufficient information available to classify further.

90. Special Properties: Unclassified

- 909. Special Properties not classified above.
- 900. Special Properties; insufficient information available to classify further.

00. Fixed Property Use: Unclassified

008. Fixed Property Use not applicable.

009. Fixed Property Use not elsewhere classified.

000. Fixed Property Use undetermined or not reported.

Item 19. Mobile Property Type:

1. Passenger Road Transport Vehicles

Motor vehicles such as automobiles, buses, or mobile homes used primarily for transporting or housing people. Included are abandoned vehicles.

11. Automobile.

Included are taxicabs, limousines, race cars, and ambulances.

12. Bus or trackless trolley.

Included are school buses.

13. All terrain vehicles.

Included are motorcycles, golf carts, snowmobiles, and dune buggies.

14. Motor home.

A mobile unit containing its own motive power.

Included are pickup truck mounted campers and bookmobiles.

15. Travel trailer.

A portable structure built or placed on a chassis and designed to be pulled by a vehicle.

16. Camping trailer.

A collapsible portable structure built on a chassis and designed to be pulled by a vehicle.

17. Mobile home, mobile building.

A structure built on a chassis and designed to be pulled by a vehicle to a semipermanent site.

Included are mobile classrooms, mobile banks, and mobile office buildings, whether on wheels, off their wheels on jacks, or on a foundation.

19. Passenger Road Transport Vehicles not classified above.

10. Passenger Road Transport Vehicles; insufficient information available to classify further.

2. Freight Road Transport Vehicles

Vehicles primarily for transporting goods.

Included are abandoned vehicles.

Excluded are materials handling equipment (63).

21. General-use trucks over 1 ton net weight.

Included are solid chassis trucks, mail trucks, dump trucks, and fire apparatus.

22. General-use small trucks under 1 ton weight.

Included are pickups, wagons, and nonmotorized hauling rigs.

23. Semitrailer truck with or without tractor.

24. Tank truck for nonflammable cargo.

25. Tank truck for flammable or combustible liquid or chemical.

Excluded are aircraft fuelers (87).

- 26. Tank truck for compressed gas or LP-gas.
- 27. Trash truck.
Included are refuse rendering and waste collection vehicles.
Excluded are mechanically moved waste containers. (72).
- 29. Freight Road Transport Vehicles not classified above.
- 20. Freight Road Transport Vehicles; insufficient information available to classify further.

3. Rail Transport Vehicles

Railroad, subway, railway, trolley car, and other rail vehicles are included.

- 31. Passenger or diner car.
- 32. Freight, box, or hopper car.
- 33. Tank car.
- 34. Container or piggy back car.
- 35. Locomotive or engine.
- 36. Self-powered car.
Included are trolley and rapid transit cars.
Excluded are trackless trolleys (12).
- 37. Maintenance equipment or car.
Included are cabooses and cranes.
- 39. Rail Transport Vehicles not classified above.
- 30. Rail Transport Vehicles; insufficient information available to classify further.

4. Water Transport Vessels

Included are all water vessels, irrespective of ownership.

- 41. Motor craft (under 65 feet in length overall).
Vessels under 65 feet in length overall.
Excluded are commercial fishing vessels (48).
- 42. Vessel (under 1,000 gross tons).
Vessels over 65 feet in length overall, but under 1,000 gross tons.
Included are water taxies, industrial vessels, and "yachts."
- 43. Passenger ship.
- 44. Tank ship.
- 45. Combat ship.
- 46. Cargo ship.
Vessels not classified in subdivisions 41, 42, 43, 44, and 45.
- 47. Non-self-propelled vessel.
All vessels without their own motive-power.
Included are towed petroleum ballons, barges, and other towed or towable vessels.
Excluded are sailboats (49).
- 48. Commercial fishing vessel.
Included are vessels on inland, coastal, and ocean waters and operation of oyster beds, fish hatcheries, and factory vessels.

- 49. Water Transport Vessels not classified above.
Included are sailboats without auxiliary power.
- 40. Water Transport Vessels; insufficient information available to classify further.

5. Air Transport Vehicles

- 51. Private aircraft (such as personal, business, or Aero Club).
- 52. Commercial aircraft (includes military contracted).
- 53. Military aircraft (bombers).
- 54. Military aircraft (fighter or attack).
- 55. Military aircraft (helicopters).
- 56. Military aircraft (cargo, transport, or refueler).
- 57. Military aircraft (trainer).
- 58. Military aircraft (utility, observation, or reconnaissance).
- 59. Military aircraft (special mission, such as command and control or space shuttle).
- 50. Air Transport vehicles; insufficient information available to classify further.

6. Heavy Equipment

- 61. Earth-moving equipment.
Included are bulldozers, shovels, graders, scrapers, trenchers, and plows.
- 62. Construction equipment.
Included are water-drilling equipment, pile drivers, tunneling equipment and air compressors.
- 63. Materials-handling equipment.
Included are fork lifts, industrial tow motors, loaders, and stackers.
- 64. Crane.
- 65. Tractor, harvester, or picker.
- 66. Drilling rig for petroleum and gas only.
- 67. Armored equipment.
Included are armored cars and military vehicles.
- 68. Manned or unmanned space vehicle.
Included are rockets and missiles. For launching site, see fixed property use 631.
- 69. Heavy Equipment not classified above.
- 60. Heavy Equipment; insufficient information available to classify further.

7. Special Vehicles and Containers

- 71. Garden equipment.
Included are power-driven lawn, yard, and snow equipment.
- 72. Mechanically moved waste container.
Included are bins that detach from trucks such as compactors and dumpers.
Excluded are trash trucks (27).

- 79. Special Vehicles not classified above.
- 70. Special Vehicles; insufficient information available to classify further.

8. Aircraft Ground Support Equipment

- 81. Tow tractor or loading equipment (such as tank, weapons, or cargo).
- 82. External electrical power unit.
- 83. Air-conditioning unit.
- 84. Hydraulic test stand or equipment.
- 85. Air start unit.
- 86. Oxygen cart or oxygen-related equipment.
- 87. Refueling/defueling vehicle, cart, or other fueling apparatus or equipment.
- 88. Other.
- 89. Aircraft Ground Support Equipment not classified above.
- 80. Aircraft Ground Support Equipment; insufficient information available to classify further.

9. Other Mobile Property Types

- 99. Mobile Property Type not classified above.
- 08. Mobile Property Type not applicable.
- 00. Mobile Property Type undetermined or not reported.

2. Section B - Origin and Ignition Data

Item 21. Area of Fire Origin:

0. Means of Egress
 01. Hallway, corridor, or mall.
 02. Exterior stairway.
Included are fire escapes and exterior ramps.
 03. Interior stairway.
Included are interior ramps.
 04. Escalator.
 05. Lobby or entrance way.
 09. Means of Egress not classified above.
1. Assembly and Sales Areas (groups of people)
 11. Large assembly area with fixed seats (100 or more persons).
Included are auditoriums, chapels, places of worship, theaters, arenas, and lecture halls.
 12. Large open room without fixed seats (100 or more persons).
Included are ballrooms, gymnasiums, roller rinks, bowling alley lanes, and multiuse areas.
 13. Small assembly area with or without fixed seats (less than 100 persons).
Included are class rooms, meeting rooms, and multipurpose rooms.
 14. Lounge area.
Included are living rooms, common rooms, TV rooms, dens, recreation rooms, family rooms, sitting rooms, and music rooms.
 15. Sales or showroom area.
Excluded are display windows (56).
 16. Library.
Included are art galleries and exhibit spaces.
 17. Swimming pool.
 19. Assembly and Sales Areas not classified above.
2. Functions Areas
 21. Sleeping room for under five persons.
Included are patient rooms, bedrooms, cells, and lockups.
 22. Sleeping area for five or more persons.
Included are wards, dormitories, and barracks.
 23. Dining area, lunchroom, or cafeteria.
Included are dining rooms, messrooms, canteens, and beverage service bars.
 24. Kitchen or cooking area.
 25. Lavatory, locker room, or cloakroom.
Included are checkrooms, restrooms, bathrooms, powder rooms, washrooms, shower rooms, sauna baths, outhouses, and portable toilets.
 26. Laundry room or area.
Included are washhouses.
 27. Office.
 28. Personal service area.
Included are health clubs, massage parlors, and barber and beauty treatment areas.

3. Function Areas (Continued)

- 31. Laboratory.
- 32. Printing or photographic room or area.
- 33. First aid or treatment room.
Included are areas where minor surgery is performed.
- 34. Operating room.
Included are recovery rooms and operating theaters.
- 35. Electronic equipment room or area.
Included are control centers, radar rooms, electronic computer areas, data processing centers, telephone equipment rooms, and telephone booths.
- 36. Performance or stage area.
Included are backstage areas, dressing rooms, ice rinks, boxing rings, and basketball floors.
- 37. Projection room or area.
Included are stage light and spotlight areas.
- 38. Process or manufacturing area.
Included are workrooms.
- 39. Function Areas not classified above.

4. Storage Areas

- 41. Product storage room or area, storage tank, or storage bin.
Included are all areas where products are held awaiting process, shipment, use, or sale.
- 42. Closet.
- 43. Supply storage room or area.
Included are toolrooms, maintenance supply rooms, and dead storage rooms.
- 44. Records storage room or vault.
- 45. Shipping, receiving, or loading area.
Included are packing departments, mailrooms, and loading bays.
- 46. Trash or rubbish area or container.
Included are wastepaper storage areas, industrial waste containers, compactors, and garbage and trash chutes without incinerators.
Excluded are incinerators (64).
- 47. Garage, carport, or vehicle storage area.
- 49. Storage Areas not classified above.

5. Service Facilities

- 51. Elevator or dumbwaiter.
Included are the shaft areas.
- 52. Utility shaft.
Included are pipe, ventilation, and conduit shafts.
- 53. Light shaft.
- 54. Chute.
Included are laundry chutes and mail chutes.
Excluded are trash chutes (46).
- 55. Duct.
Included are air-conditioning, heating, cable, and exhaust ducts.

- 56. Display window.
- 57. Chimney.
For fires not confined to the chimney, the area of origin shall be classified as the first area where ignition occurs outside the chimney, and the chimney is the equipment involved in ignition.
- 58. Conveyor.
- 59. Service Facilities not classified above.

6. Service and Equipment Areas

- 61. Machinery room or area.
Included are elevator machinery rooms, engine rooms, pump rooms, headhouses, and refrigeration rooms.
- 62. Heating or equipment room or area or water heater area.
- 63. Switchgear area or transformer vault.
- 64. Incinerator room or area.
Included are all incinerator operations.
Excluded are rubbish areas without incinerators (46).
- 65. Maintenance shop or area.
Included are repair shops, welding shops, paint shops, workshops, and paint-spraying areas.
- 66. Test cell.
- 67. Enclosure with pressurized air.
- 68. Enclosure with enriched oxygen atmosphere.
- 69. Service and Equipment Areas not classified above.

7. Structural Areas

- 71. Crawl space or substructure space.
- 72. Exterior balcony or open porch.
- 73. Ceiling and floor assembly or concealed floor or ceiling space.
- 74. Ceiling and roof assembly or concealed roof or ceiling space.
Included are church steeples and cupolas.
- 75. Wall assembly or concealed wall space.
- 76. Exterior wall surface.
- 77. Exterior roof surface.
- 78. Awning.
- 79. Structural Areas not classified above.

8. Transportation and Vehicle Areas

- 81. Passenger area of transportation equipment.
- 82. Trunk or load-carrying area of transportation equipment.
- 83. Engine area, running gear, or wheel area of transportation equipment.
- 84. Fuel tank or fuel line area of transportation equipment.
Included are tanks and lines for flammable or combustible liquids up to the engine area.
- 85. Operating or control area of transportation equipment.
Included are the bridge of ships, cockpit of planes, and cab of trucks.
- 86. Exterior exposed surface of transportation equipment.
- 89. Transportation and Vehicle Areas not classified above.

9. Other Area of Origin

91. On or near railroad right-of-way or embankment.
92. On or near highway, public way, street, or parking lot.
93. Court, terrace, or patio.
Included are screened-in porches and patios.
94. Lawn, field, or open area.
Included are farmland, parks, and vacant lots.
95. Wildland area or woods.
96. Area under construction or major renovation.
97. Multiple areas of origin.
98. Vacant structural area with no current use.
99. Other Area of Origin not classified above.
00. Other Area of Origin undetermined or not reported.

Item 22. Level of Origin:

1. Grade Level to 9 feet above grade.
2. 10 to 19 feet above grade.
3. 20 to 29 feet above grade.
4. 30 to 49 feet above grade.
5. 50 to 70 feet above grade.
6. Over 70 feet above grade.
7. Objects in flight.
8. Below ground level or water level.
9. Level of Origin not classified above.
0. Level of Origin undetermined or not reported.

Item 24. Equipment Involved in Ignition (If Any):

1. Heating Systems

Excluded are combination heating and cooling systems (division 3).

11. Central heating unit.
Included are central furnaces and power burners or stokers having an air supply and a return air system.
Excluded are industrial furnaces (71).
12. Water heater.
13. Fixed or stationary local heating unit.
Included are wall furnaces, unit heaters, room heaters, fixed heating stoves, fireplace insert stoves, woodburning stoves providing local heating, and baseboard heaters not intended for duct connection.
14. Indoor fireplace.
Excluded are fireplace insert stoves (13).
15. Portable local heating unit.
Included are space heaters, room heaters, and portable salamanders.
16. Chimney or gas vent flue.
Included are masonry, factory-built, and metal chimneys. Use this classification only if heat from chimney or sparks from chimney ignite other materials not in the chimney. For fires confined to the chimney, classify the equipment involved in ignition as appropriate in subdivisions 11-15 above.

17. Chimney connector, vent connector (connects firebox to chimney).
Included are smoke pipes.
18. Heat transfer system.
Included are steam lines, heating pipes, and hot air ducts.
19. Heating Systems not classified above.
10. Heating Systems; insufficient information available to classify further.

2. Cooking Equipment

21. Fixed or stationary surface unit.
Included are stoves.
Excluded are charcoal grills (26).
22. Fixed or stationary oven.
Included are rotisseries.
23. Fixed or stationary food-warming appliance.
Included are coffee urns, steamtables, warming drawers, and warming tables.
24. Deep fat fryer.
25. Portable cooking or warming unit.
Included are hotplates, camp stoves, toasters, and waffle irons.
26. Open-fired grill.
Included are charcoal, wood, and paper-fired hibachi and barbecue grills.
27. Grease hood or duct.
Included are the lighting and venting equipment of the unit.
29. Cooking Equipment not classified above.
20. Cooking Equipment; insufficient information available to classify further.

3. Air-Conditioning and Refrigeration Equipment

Included are combination cooling and heating systems.
Excluded are the cords and plugs (47).

31. Central air-conditioning and refrigeration equipment.
32. Water-cooling device or tower.
33. Fixed or stationary local refrigerator unit.
Included are cold boxes, freezers, and refrigerators.
34. Fixed or stationary local air-conditioning unit.
35. Portable air-conditioning or refrigeration unit.
Included are dehumidifiers.
39. Air-Conditioning and Refrigeration Equipment not classified above.
30. Air-Conditioning and Refrigeration Equipment; insufficient information available to classify further.

4. Electrical Distribution Equipment

Excluded are heating, cooking, air-conditioning, and refrigeration equipment.

41. Fixed wiring.
Included are powerlines, junction boxes, cables, wiring in raceways, and electric wiring in vehicles.
 42. Transformer or associated overcurrent or disconnect equipment.
 43. Meter or meter box.
 44. Power switch gear or overcurrent protection devices.
Included are panelboards or switchboards, fuses, and circuit breakers.
 45. Switch, receptacle, or outlet.
 46. Lighting fixture, lampholder, ballast, or sign.
 47. Cord or plug.
Included are "temporary" extension cords, appliance cords, and plugs.
 48. Lamp or light bulb.
 49. Electrical Distribution Equipment not classified above.
 40. Electrical Distribution Equipment; insufficient information available to classify further.
5. Appliances and Equipment (other than elsewhere classified in this chapter)
51. Television, radio, or phonograph.
Included are tape recorders, sound- or picture-receiving equipment, and reproduction equipment.
 52. Dryer.
Included are coin-operated dryers and extractors removing any liquid or solvent.
 53. Washing machine.
Included are coin-operated machines at laundries.
 54. Floor care equipment.
Included are vacuum cleaners.
Excluded are "ride on" type floor care machines that are classified as industrial trucks (96).
 55. Separate motor or generator.
Included are those not an integral part of an appliance and those separated by a belt or chain from the equipment they drive or that drives them.
 56. Handtools.
Included are soldering irons and drills.
 57. Portable appliance (equipment) designed to produce controlled heat (not classified in 52 or 56).
Included are electric blankets, steam irons, and heat tape.
 58. Portable appliance designed not to produce heat (not classified above).
Included are electric razors and can openers.
 59. Appliances and Equipment not classified above.
Included are dishwashers.
 50. Appliances and Equipment; insufficient information available to classify further.
6. Special Equipment
61. Electronic equipment.
Included are radar, X-ray, computer, telephone, and transmitter equipment.

- 62. Vending machine or drinking fountain.
- 63. Office machine.
- 64. Biomedical equipment or device.
Included are anesthetizing machines.
- 65. Separate pump or compressor.
- 66. Internal combustion engine.
Included are the drive train and exhaust system.
Excluded are bearings and brakes (82).
- 67. Conveyor or escalator.
- 68. Printing press.
- 69. Special Equipment not classified above.
- 60. Special Equipment; insufficient information available to
classify further.

7. Processing Equipment

- 71. Furnace, oven, or kiln.
Excluded are those used for food preparation (division 2) and
heat treating (73).
- 72. Casting, molding, or forging equipment.
Included are glass-forming machines and die-casting machines.
- 73. Heat-treating equipment.
Included are quench tanks and associated equipment.
- 74. Working or shaping machine.
Included are sawing, planing, grinding, machining, forming,
opening, picking, carding, and weaving machines.
- 75. Coating machine.
Included are asphalt-saturating and rubber-spreading machines.
- 76. Painting equipment.
Included are dipping, spraying, and flow-coating equipment.
- 77. Chemical process equipment.
Included are digesters, reactors, black liquor recovery units,
and distilling equipment.
- 78. Waste recovery equipment.
Included are garnetted and solvent recovery equipment.
- 79. Processing Equipment not classified above.
- 70. Processing Equipment; insufficient information available
to classify further.

8. Service and Maintenance Equipment

- 81. Incinerator. Included are burning barrels.
- 82. Bearing or brake.
- 83. Rectifier or charger.
Included are inverters and batteries.
- 84. Tarpot or tar kettle.
- 85. Arc or oil lamp.
Included are gas mantles, arc-lighted motion-picture projectors,
and lanterns for recreational use.
- 86. Elevator.
- 87. Torch or welder.
Included are cutting, welding, and plumber's torches, Bunsen
burners, weed burners, and arc welders.

- 89. Service and Maintenance Equipment not classified above.
- 80. Service and Maintenance Equipment; insufficient information available to classify further.

9. Other Object, Exposure Fire

- 91. Separate, removed exposure.
Ignition of another fixed or mobile property separated from the fire by a distance of at least 50 feet.
- 92. Separate, detached exposure.
Ignition of another fixed or mobile property separated from the fire by a distance of more than 1 foot but less than 50 feet.
- 93. Separate, adjoining exposure.
Ignition of another fixed or mobile property separated from the fire by a distance of less than 1 foot or by an unpierced wall.
- 94. Attached, protected exposure.
Ignition of a structure communicating with another, but separated by pierced firewalls or rated fire cutoffs and with all common firewall openings protected by standard installation of fire doors, and cutoffs.
- 95. Attached, unprotected exposure.
Ignition of a structure, adjoining another structure, not meeting the above definitions, and separated by pierced walls of substandard type or without standard protection of openings.
- 96. Vehicle.
Included are exhaust systems and other vehicle parts.
- 98. No equipment involved - see block 28 for Form of Heat Ignition (such as cigarette or match).
- 99. Other Object, Exposure Fire not classified above.
- 90. Other Object, Exposure Fire; insufficient information available to classify further.
- 00. Equipment Involved in Ignition undetermined or not reported.

Item 26. Type of Material First Ignited:

1. Gas (Not Gasoline)

- 11. Natural gas.
- 12. LP-city gas (LP and air mix).
- 13. Manufacturing gas.
- 14. LP-gas.
- 15. Anesthetic gas.
- 16. Acetylene.
- 17. Other specialty gas.
Excluded are anesthetic gas (15), acetylene (16), and hydrogen (18).
- 18. Hydrogen.
- 19. Gas not classified above.
- 10. Gas; insufficient information available to classify further.

2. Flammable or Combustible Liquid

Classification information is given in NFPA Standards 321 and 325M (references (g) and (h)).

21. Class 1A flammable liquid.
Flashpoint less than 73°F (22.8°C) and boiling point less than 100°F (37.8°C).
Included are ethyl ether pentane and ethylene oxide.
22. Class 1B flammable liquid.
Flashpoint less than 73°F (22.8°C) and boiling point at or above 100°F (37.8°C).
Included are acetone, ethyl alcohol, JP-4 jet fuel, and methyl ethyl ketone.
Excluded is gasoline (23).
23. Gasoline.
24. Class 1C flammable liquid.
Flashpoint at or above 73° (22.8°C) and below 100°F (37.8°C).
Included are butyl alcohol, propyl alcohol, styrene, and turpentine.
25. Class II combustible liquid.
Flashpoint at or above 100°F (37.8°C) but less than 140°F (60°C).
Included are kerosene, Nos. 1, 2, 4, and 5 fuel oil, diesel fuel, JP-5, and Jet A and JP-8 fuels.
26. Class IIIA combustible liquid.
Flashpoint at or above 140°F (60°C) but less than 200°F (93.4°C).
Included are No. 6 fuel oil, Navy distillate fuel, cottonseed oil, and creosote oil.
27. Class IIIB combustible liquid.
Flashpoint at or above 200°F (93.4°C).
Included are cooking oil, transformer oil, and lubricating oil.
29. Flammable or Combustible Liquid not classified above.
20. Flammable or Combustible Liquid; insufficient information available to classify further.

3. Volatile Solids and Chemicals

Volatile solids are materials with a melting point between 100°F and 200°F.

31. Fat or grease (food).
Included are butter, tallow, margarine, and lard.
32. Grease (nonfood)
Included are petroleum jellies.
33. Polish.
Included are paraffin and wax.
34. Adhesive, resin, or tar.
Included are glue, gelatin, rosin, damas, elemi, kauri, asphalt, pitch, contact cement, soot, carbon, and creosote.
Excluded is asphalt-impregnated material (86).
35. Applied paint or varnish.
36. Combustible metal.
Included are magnesium, titanium, and zirconium.
37. Solid chemicals.
Included are explosives.
Excluded are liquid chemicals (division 2) and gaseous chemicals (division 1).
38. Radioactive material.
39. Volatile Solids and Chemicals not classified above.

30. Volatile Solids and Chemicals; insufficient information available to classify further.

4. Plastic

Included are all forms of plastic, whether rigid, semirigid, flexible, or foamed.

41. Polyurethane.
Included are polyisocyanurates.
42. Polystyrene.
Included are styrene copolymers such as styrene-acrylonitrile (SAN), styrene-butadiene, and acrylonitrile-butadienestyrene (ABS).
43. Polyvinyl.
Included are polyvinyl chloride (PVC), polyvinyl fluoride, polyvinylidene chloride, polyvinylidene fluoride, and vinyl chloride-acrylonitrile.
44. Polyacrylic.
Included are polymethyl methacrylate (PMMA).
45. Polyester.
Included are fiberglass reinforced polyester.
46. Polyolefin.
Included are polyethylene and polypropylene.
49. Plastic not classified above.
40. Plastic; insufficient information available to classify further.

5. Natural Product

51. Rubber.
Excluded are synthetic rubbers (classify as plastics, division 4).
52. Cork.
53. Leather.
54. Grass, leaves, hay, or straw.
55. Grain or natural fiber (pre-process).
Included are feathers, felt, kapok, hessian, hemp, sisal, jute, cocofilm, flax, and cotton.
Excluded are fabrics and furniture batting (72).
56. Coal, coke, briquettes, or peat.
57. Food or starch.
Excluded are fat and grease (31).
58. Tobacco.
59. Natural Product not classified above.
50. Natural Product; insufficient information available to classify further.

6. Wood and Paper

61. Growing wood.
62. Felled but unsawed wood.
63. Sawed wood.
Included are all finished lumber.

- 64. Wood shavings.
Included are sawdust and excelsior.
- 65. Hardboard or plywood.
- 66. Fiberboard (low-density material) or wood pulp.
Included are low-density pressed wood fiberboard products.
- 67. Paper, untreated or uncoated.
Excluded are waxed papers (83).
- 68. Cardboard.
- 69. Wood and Paper not classified above.
- 60. Wood and Paper; insufficient information available to
classify further.

7. Fabric, Textile, and Fur

Classify by predominant type of material, except as shown in 72.

- 71. Manmade fabric, fiber, or finished goods.
Excluded are rayons (72).
- 72. Cotton, rayon, cotton fabric, or finished goods.
Included are canvases and all polyester-cotton blends.
Excluded is waterproof canvas made with materials compounded
with oil (84).
- 73. Wool, wool mixture fabric, or finished goods.
- 74. Fur, silk, other fabric, or finished goods.
- 75. Wig.
- 76. Human hair.
- 77. Plastic-coated fabric.
Included are plastic upholstery fabric and other vinyl fabrics.
- 79. Fabric, Textile, and Fur not classified above.
- 80. Fabric, Textile, and Fur; insufficient information available to
classify further.

8. Material Compounded with Oil

- 81. Linoleum.
- 82. Oil cloth.
- 83. Treated or coated paper.
Included is waxed paper.
- 84. Waterproof canvas.
Excluded is waterproof cloth of rayon
covered with neoprene (77).
- 85. Oily rags.
Included are waste materials impregnated with oil.
- 86. Asphalt-treated material.
Excluded are by-products of combustion, soot, carbon, and creosote
(34).
- 89. Material Compounded with Oil not classified above.
- 80. Material Compounded with Oil; insufficient information avail-
able to classify further.

9. Other Type of Material Ignited

- 97. Multiple types of material first ignited.
Use this subdivision only if multiple fires started at approximately the same time on the same property and more than one type of material was initially involved. If one major material was involved, use the appropriate classification. List each material in the report.
- 98. Other Type of Material Ignited not significant or not applicable.
- 99. Other Type of Material Ignited not classified above.
- 00. Other Type of Material Ignited undetermined or not reported.

Item 27. Form of Material First Ignited:

1. Structural Component and Finish

- 11. Exterior roof covering, surface, or finish.
- 12. Exterior sidewall covering, surface, or finish.
Included are eaves.
- 13. Exterior trim or appurtenances.
Included are doors, porches, and platforms.
- 14. Floor covering or surface.
- 15. Interior wall covering.
Included are cloth wall coverings, wood paneling, and items permanently affixed to a wall or door.
Excluded are curtains and draperies (36) and decorations (42).
- 16. Ceiling covering or surface.
Included are cloth permanently affixed to ceiling and acoustical tile.
- 17. Structural member or framing.
- 18. Thermal, acoustical insulation within wall, partition, or floor or ceiling space.
- 19. Structural Component and Finish not classified above.
- 20. Structural Component and Finish; insufficient information available to classify further.

2. Furniture and Utensils

Included is built-in furniture.

- 21. Upholstered sofa, chair, or vehicle seats.
- 22. Nonupholstered chair or bench.
- 23. Cabinetry.
Included are filing cabinets, pianos, dressers, chest of drawers, desks, tables, and bookcases.
Excluded are TV sets, bottle warmers, and appliance housings (25).
- 24. Ironing board.
- 25. Appliance housing or casing.
- 26. Kitchen household utensils.
- 29. Furniture and Utensils not classified above.
- 20. Furniture and Utensils; insufficient information available to classify further.

3. Soft Goods and Wearing Apparel

- 31. Mattress or pillow.
- 32. Bedding, blanket, sheet, or comforter.
Included are heating pads.
- 33. Linen, other than bedding.
Included are towels and tablecloths.
- 34. Wearing apparel not on a person.
- 35. Wearing apparel on a person.
- 36. Curtain, blind, drapery, or tapestry.
- 37. Goods not made up.
Included are fabrics and yard goods.
- 38. Luggage.
- 39. Soft Goods and Wearing Apparel not classified above.
- 30. Soft Goods and Wearing Apparel; insufficient information available to classify further.

4. Adornment and Recreational Material

- 41. Christmas tree.
- 42. Decoration.
- 43. Book.
- 44. Magazine, newspaper, or writing paper.
Included are files.
- 45. Toy or game.
- 46. Awning or canopy.
- 47. Tarpaulin or tent.
- 49. Adornment and Recreational Material not classified above.
- 40. Adornment and Recreational Material; insufficient information available to classify further.

5. Supplies and Stock

- 51. Box, carton, or bag.
- 52. Basket or barrel.
Included are wastebaskets.
- 53. Pallet or skid (not in use).
Excluded are palletized stock (85).
- 54. Rope, cord, twine, or yarn.
- 55. Packing or wrapping material.
- 56. Bale storage.
- 57. Bulk storage.
- 58. Cleaning supplies.
Included are brooms, brushes, mops, cleaning cloths, and cleaning fluids.
- 59. Supplies and Stock not classified above.
- 50. Supplies and Stock; insufficient information available to classify further.

6. Power Transfer Equipment and Fuel

- 61. Electrical wire or cable insulation.
Do not classify the insulation on the wiring as the first material ignited unless there were no other materials in the immediate area, such as might be found in a cable tray or electrical vault. Classify the first material of significance that caught fire from the wire or wire insulation as the material first ignited.
- 62. Transformer.
Included are transformer fluids.
- 63. Conveyor belt, drive belt, or V-belt.
- 64. Tire.
- 65. Fuel.
Included are flammable liquids or gases in their final container before direct transfer into the engine or burner or the piping associated with this final transfer.
Excluded are flammable liquids or gases stored in a container such that they need to be transferred to another container before use (86).
- 66. Pipe, duct, conduit, or hose.
- 67. Pipe, duct, or conduit covering.
Included are insulating materials, whether for acoustical or thermal purposes, and whether inside or outside the pipe, conduit, or duct.
- 69. Power Transfer Equipment and Fuel not classified above.
- 60. Power Transfer Equipment and Fuel; insufficient information available to classify further.

7. General Form

- 71. Agricultural product.
- 72. Fence or pole.
- 73. Fertilizer.
- 74. Growing or living form.
Included are forests, brush, and grass.
- 75. Rubbish, trash, or waste.
- 76. Cooking materials.
Included are edible materials for man or animal.
- 77. Sign.
- 78. Film or film residue.
Included are paint or resin film and paint or resin residue on spray booths, exhaust ducts, or dip tank drain boards and chimney residue (soot) and other films and residues produced as a by-product of an operation.

8. Special Form

- 81. Dust, fiber, or lint.
- 82. Pyrotechnics or explosives.
- 83. Atomized or vaporized liquid.
Excluded are aerosols (86).
- 84. Chips.
- 85. Palletized material or material stored on pallets.

- 86. Gas or liquid in or from pipe or container.
Included are accelerants and aerosols.
Excluded are fuels in their final container before direct transfer to the engine or burner or in the piping associated with the final transfer (65).
- 87. Rolled material.
Included is rolled paper.
- 88. Adhesive.

9. Other Form of Material

- 97. Multiple forms of material first ignited.
Use this subdivision only if there are multiple fires started at approximately the same time on the same property and more than one form of material was initially involved. If one major material was involved, use the appropriate classification.
- 98. Form of material not significant or not applicable.
Use this subdivision only when this data element is being used for reporting a form of material as other than the first material ignited and the circumstances of the situation are such that the form of material is not applicable or significant.
- 99. Form of Material not classified above.
- 00. Form of Material undetermined or not reported.

Item 28. Form of Heat of Ignition:

1. Heat from Fuel-Fired or Fuel-Powered Object

- 11. Spark, ember, or flame escaping from gas-fueled equipment.
- 12. Heat from gas-fueled equipment.
Included are pilot lights and normal flames.
- 13. Spark, ember, or flame escaping from liquid-fueled equipment.
- 14. Heat from liquid-fueled equipment.
Included are pilot lights and normal flames.
- 15. Spark, ember, or flame escaping from solid-fueled equipment.
- 16. Heat from solid-fueled equipment.
- 17. Spark, ember, or flame escaping from equipment: fuel not known.
- 18. Heat from equipment: fuel not known.
- 19. Heat from Fuel-Fired or Fuel-Powered Object not classified above.
- 10. Heat from Fuel-Fired or Fuel-Powered Object; insufficient information available to classify further.

2. Heat from Electrical Equipment Arcing, Overloaded

- 21. Water-caused short circuit arc.
- 22. Short circuit arc from mechanical damage.
- 23. Short circuit arc from defective, worn insulation.
- 24. Unspecified short circuit arc.
- 25. Arc from faulty contact, loose connection, or broken conductor.
- 26. Arc, spark from operating equipment or switch.
- 27. Heat from overloaded equipment.
Included are wires and motors.
- 28. Fluorescent light ballast.

29. Heat from Electrical Equipment Arcing, Overloaded not classified above.
20. Heat from Electrical Equipment Arcing, Overloaded; insufficient information available to classify further.
3. Heat from Smoking Material

Included is heat from material in use or after use.
Excluded are matches (45) and lighters (46).

 31. Cigarette.
 32. Cigar.
 33. Pipe.
 39. Heat from Smoking Material not classified above.
 30. Heat from Smoking Material; insufficient information available to classify further.
4. Heat from Open Flame or Spark
 41. Cutting torch operation (separating metals).
 42. Welding torch operation (joining metals).
 43. Torch operation, other than cutting and welding.
Included are plumbers' furnaces, blowtorches, plumbers' torches, Bunsen burners, soldering and heating operations, paint stripping torches, and other torch operations.
 44. Candle or taper.
 45. Match.
 46. Lighter (flame type).
 47. Open fire.
Included are campfires, bonfires, warning flares, rubbish fires, open trash burners, open incinerators, and outdoor-fireplaces.
 48. Backfire from internal combustion engine.
Excluded are flames and sparks from an exhaust system (13).
 49. Heat from Open Flame or Spark not classified above.
 40. Heat from Open Flame or Spark; insufficient information available to classify further.
5. Heat from Hot Object
 51. Heat or spark from friction.
Included are overheated tires.
 52. Molten or hot material.
Included are molten metal, hot forging, hot glass, hot metal fragments, brakeshoe, and hot box and slag from arc welding operations.
 53. Hot ember or ash.
 54. Electric lamp.
Included are light bulbs.
 55. Rekindle or reignition.
 56. Heat from properly operating electrical equipment.
 57. Heat from improperly operating electrical equipment.
 59. Heat from Hot Object not classified above.
 50. Heat from Hot Object; insufficient information available to classify further.

6. Heat from Explosive and Fireworks

- 61. Explosive or munitions.
Included are bombs, ammunition, military rockets, and tracer ammunition.
- 62. Blasting agent.
- 63. Fireworks.
Included are sparklers.
- 64. Paper cap or party popper.
- 65. Model rocket, not amateur rocketry.
- 66. Incendiary device.
Included are Molotov cocktails.
- 69. Heat from Explosive and Fireworks not classified above.
- 60. Heat from Explosive and Fireworks; insufficient information available to classify further.

7. Heat from Natural Source

- 71. Sun's heat.
Usually magnified through glass or bottles.
- 72. Spontaneous ignition or chemical reaction.
- 73. Lightning discharge.
- 74. Static discharge.
- 79. Heat from Natural Source not classified above.
- 70. Heat from Natural Source; insufficient information available to classify further.

8. Heat Spreading from Another Hostile Fire (Exposure)

- 81. Heat from direct flame or convection currents.
- 82. Radiated heat.
- 83. Heat from flying brand, ember or spark.
- 84. Conducted heat.
- 89. Heat Spreading from Another Hostile Fire not classified above.
- 80. Heat Spreading from Another Hostile Fire; insufficient information available to classify further.

9. Other Form of Heat of Ignition

- 97. Multiple forms of heat of ignition.
Use this subdivision only if there are multiple fires started at approximately the same time on the same property and more than one heat of ignition was initially involved. If one major heat source was involved, use the appropriate classification. List each heat source in the report.
- 99. Other Form of Heat of Ignition not classified above.
- 00. Other Form of Heat of Ignition undetermined or not reported.

Item 29. Ignition Factor:

1. Incendiary

Legal decision or physical evidence indicates that the fire was deliberately set.

11. Incendiary, not during civil disturbance.
12. Incendiary, during civil disturbance.

2. Suspicious

Circumstances indicate the possibility that the fire may have been deliberately set, multiple ignitions were found, or there were suspicious circumstances and no accidental or natural ignition factor could be found.

21. Suspicious, not during civil disturbance.
22. Suspicious, during civil disturbance.

3. Misuse of Heat of Ignition

31. Abandoned, discarded heat source.
Included are discarded cigarettes, cigars, tobacco embers, hot ashes, and other burning matter.
Excluded are outside fires left unattended, smoking materials abandoned if asleep (33), impairment by drugs or alcohol (37), or other impairments (38).
32. Thawing.
33. Falling asleep.
Included are fires that result from a person smoking when he falls asleep.
34. Inadequate control of open fire.
Included are smoking out animals, campfires, debris burning, and outside fires left unattended.
35. Heat source used or placed too close to combustibles.
Included are matches or candles used for light in unsafe places; welding or cutting operations; fires under tree branches, snags, timber hauling block hung improperly; and failure to clear debris from around campfires or engines.
Excluded are heat sources permanently installed too close to combustibles (63).
36. Children playing with heat sources.
Included are matches and candles.
37. Person impaired by drug or alcohol.
Included are people who fall asleep as a result of drugs or alcohol.
Excluded are people who simply fall asleep (33).
38. Person otherwise impaired.
Included are unconsciousness; mental or physical impairment.
Excluded are people simply falling asleep (33).
39. Misuse of Heat of Ignition not classified above.
30. Misuse of Heat of Ignition; insufficient information available to classify further.

4. Misuse of Material Ignited

If the heat of ignition moves or was moved and the material first ignited was stationary, classify in division 3. If the heat of ignition was stationary and the material first ignited moves or was

moved, classify here (division 4). If both the heat of ignition and the material first ignited move or were moved, classify in division 3. Misuse of smoking materials shall be classified in the most appropriate heading of division 3.

41. Flammable liquid or gas spilled or released accidentally.
Excluded are improper fueling (42) and accidental release due to improper container (45).
42. Improper fueling technique.
Included are fueling of power saws, vehicles, and gasoline motors.
Excluded are flammable gas or liquids spilled or released accidentally (41).
43. Flammable liquid used to kindle fire.
44. Washing part, cleaning, refinishing, or painting with flammable liquid.
45. Improper container.
Included are gasoline in glass and plastic containers.
46. Combustible placed too close to heat source.
Included are storage near chimney, stovepipe, furnace, stove, and incinerator.
Excluded are situations in which smoking materials were involved (division 3); or in which both the heat of ignition and the material first ignited moved (division 3); or in which combustibles are permanently installed too close to a heat source (63).
47. Improper storage procedures.
Included are spontaneous ignition and gas containers stored at excessive temperature.
48. Children playing with combustibles.
Included are gasoline, flammable liquids, pillows, and towels.
49. Misuse of Material Ignited not classified above.
40. Misuse of Material Ignited; insufficient information available to classify further.

5. Mechanical Failure or Malfunction

If both the heat of ignition and the material first ignited are both stationary, classify in division 5 or 6.

51. Part failure, leak, or break.
52. Automatic control failure.
Included are delayed ignitions of oil burners.
53. Manual control failure.
54. Short circuit or ground fault.
55. Other electrical failure.
56. Lack of maintenance, worn out.
Included are failures to maintain, burned-out incinerators, and spark arresters.
Excluded are short circuits, ground fault (54), and failure to clean (75).
57. Backfire.
Included is ignition outside the combustion chamber.
Excluded are fires originating as a result of hot catalytic converters (61).

- 59. Mechanical Failure or Malfunction not classified above.
- 50. Mechanical Failure or Malfunction; insufficient information available to classify further.

6. Design, Construction, or Installation Deficiency

- 61. Design deficiency.
Included are catalytic converters and heat from properly operating equipment.
- 62. Construction deficiency.
Included are improperly built chimneys.
- 63. Installed too close to combustibles.
Included are structures or interior finish too close to chimneys, stove pipes, furnaces, and stoves.
Excluded is storage too close to heat source (46).
- 64. Other installation deficiency.
Included are improper installation of spark arrester, flame arrester, muffler, stove pipe, and factory-built chimneys.
- 65. Property too close to
Included are exposure fires.
- 69. Design, Construction, or Installation Deficiency not classified above.
- 60. Design, Construction, or Installation Deficiency; insufficient information available to classify further.

7. Operational Deficiency

If equipment was misused, whether it moved or not, classify in division 7. Misuse of smoking materials shall be classified in division 3.

- 71. Collision, overturn, or knockdown.
Included are automobiles and vehicles.
- 72. Accidentally turned on or not turned off.
- 73. Equipment unattended.
- 74. Equipment overloaded.
Included are cords serving too many appliances.
- 75. Failure to clean.
Included are lint or grease buildups; chimneys, and stove pipes.
- 76. Improper startup or shutdown procedures.
- 77. Equipment used for purpose not intended.
Excluded is overloaded equipment (74).
- 78. Equipment not being operated properly.
Included are situations where safety or control devices are bypassed.
- 79. Operational Deficiency not classified above.
- 70. Operational Deficiency; insufficient information available to classify further.

8. Natural Condition

- 81. High wind.
- 82. Earthquake.
- 83. High water, including floods.
- 84. Lightning.

- 89. Natural Condition not classified above.
- 80. Natural Condition; insufficient information available to classify further.

9. Other Ignition Factor

- 91. Animal.
- 92. Rekindled from a previous fire.
- 99. Other Ignition Factor not classified above.
- 00. Other Ignition Factor undetermined or not reported.